WHO International Standard
1st WHO International Standard for SARS-CoV-2 antigen
NIBSC code: 21/368
Instructions for use
(Version 1.0, Dated 01/11/2022)

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1. INTENDED USE

This preparation contains 0.01% formaldehyde-inactivated SARS-CoV-2 Omicron (B.1.1.529, sub-variant BA.1). The reference is intended for the standardization, and evaluation of performance and sensitivity of SARS-CoV-2 antigen detection as well as for the calibration of secondary reference materials.

2. CAUTION

The material is not of human or bovine origin. This preparation is not for administration to humans or animals

3. UNITAGE

This material has an assigned unitage of 5000 International Units of SARS-CoV-2 antigen per ampoule.

4. CONTENTS

Country of origin of biological material: United Kingdom. Each ampoule is a lyophilate of a preparation that contained 0.25 mL of clarified SARS-CoV-2 culture supernatant of Omicron (B.1.1.529, sub-variant BA.1), inactivated with 0.01% formaldehyde and diluted ~1/15 in Copan Universal Transport Medium (UTM-RT).

5. STORAGE

This preparation should be stored at -20°C or below on receipt. Please note because of the inherent stability of lyophilized material, NIBSC may ship these materials at ambient temperature.

6. DIRECTIONS FOR OPENING

DIN ampoules have an 'easy-open' coloured stress point, where the narrow ampoule stem joins the wider ampoule body. Various types of ampoule breaker are available commercially. To open the ampoule, tap the ampoule gently to collect material at the bottom (labelled) end and follow manufactures instructions provided with the ampoule breaker.

7. USE OF MATERIAL

No attempt should be made to weigh out any portion of the freezedried material prior to reconstitution

This material is supplied lyophilized and before use should be reconstituted in 0.25 mL of ultra-pure water. Reconstituted material should be used on the day of reconstitution.

8. STABILITY

Reference materials are held at NIBSC within assured, temperature-controlled storage facilities. Reference Materials should be stored on receipt as indicated on the label.

NIBSC follows the policy of WHO with respect to its reference materials.

9. REFERENCES



Fryer JF, Hockley JG, Rigsby P, Morris CL, and the Collaborative Study Group. A Collaborative Study to Evaluate the Proposed 1st WHO International Standard for SARS-CoV-2 Antigen WHO/BS/2022.2426. World Health Organization, Geneva, Switzerland.

10. ACKNOWLEDGEMENTS

We gratefully acknowledge the important contributions of the collaborative study participants. Funding for the development of this standard was provided by the WHO Health Emergencies Programme.

11. FURTHER INFORMATION

Further information can be obtained as follows;

This material: enquiries@nibsc.org

WHO Biological Standards:

http://www.who.int/biologicals/en/

JCTLM Higher order reference materials:

http://www.bipm.org/en/committees/jc/jctlm/

Derivation of International Units:

http://www.nibsc.org/standardisation/international_standards.aspx

Ordering standards from NIBSC:

http://www.nibsc.org/products/ordering.aspx

NIBSC Terms & Conditions:

http://www.nibsc.org/terms_and_conditions.aspx

12. CUSTOMER FEEDBACK

Customers are encouraged to provide feedback on the suitability or use of the material provided or other aspects of our service. Please send any comments to enquiries@nibsc.org

13. CITATION

In all publications, including data sheets, in which this material is referenced, it is important that the preparation's title, its status, the NIBSC code number, and the name and address of NIBSC are cited and cited correctly.

14. MATERIAL SAFETY SHEET

Classification in accordance with Directive 2000/54/EC, Regulation (EC) No 1272/2008; Not applicable or not classified

mical properties prrosive: No kidising: No itant: No		
xidising: No		
U		
itant: No		
andling: See caution, Section 2		
Toxicological properties		
ablished, avoid inhalation		
ablished, avoid ingestion		
tablished, avoid contact with		





Medicines & Healthcare products Regulatory Agency



Suggested First Aid		
Inhalation:	Seek medical advice	
Ingestion:	Seek medical advice	
Contact with	Wash with copious amounts of water. Seek	
eyes:	medical advice	
Contact with	Wash thoroughly with water.	
skin:		
1		

Action on Spillage and Method of Disposal

Spillage of ampoule contents should be taken up with absorbent material wetted with an appropriate disinfectant. Rinse area with an appropriate disinfectant followed by water. Absorbent materials used to treat spillage should be treated as biological waste.

15. LIABILITY AND LOSS

In the event that this document is translated into another language, the English language version shall prevail in the event of any inconsistencies between the documents.

Unless expressly stated otherwise by NIBSC, NIBSC's Standard Terms and Conditions for the Supply of Materials (available at http://www.nibsc.org/About_Us/Terms_and_Conditions.aspx or upon request by the Recipient) ("Conditions") apply to the exclusion of all other terms and are hereby incorporated into this document by reference. The Recipient's attention is drawn in particular to the provisions of clause 11 of the Conditions.

INFORMATION FOR CUSTOMS USE ONLY

Country of origin for customs purposes*: United Kingdom * Defined as the country where the goods have been produced and/or sufficiently processed to be classed as originating from the country of supply, for example a change of state such as freeze-drying.

Net weight: 0.25g

Toxicity Statement: Non-toxic

Veterinary certificate or other statement if applicable.

Attached: No

17. CERTIFICATE OF ANALYSIS

NIBSC does not provide a Certificate of Analysis for WHO Biological Reference Materials because they are internationally recognised primary reference materials fully described in the instructions for use. The reference materials are established according to the WHO Recommendations for the preparation, characterization and establishment of international and other biological reference standards

http://www.who.int/bloodproducts/publications/TRS932Annex2_I nter_biolefstandardsrev2004.pdf (revised 2004). They are officially endorsed by the WHO Expert Committee on Biological Standardization (ECBS) based on the report of the international collaborative study which established their suitability for the intended use.

